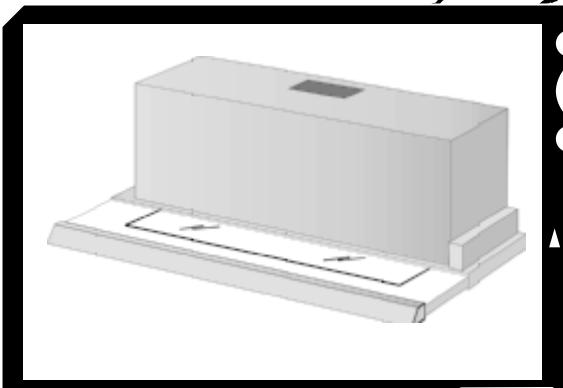


**best**<sup>®</sup>  
BY BROAN



# Model U102E

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# READ AND SAVE THESE INSTRUCTIONS

**! INTENDED FOR DOMESTIC COOKING ONLY !**



## **WARNING**

**TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Before servicing or cleaning unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
3. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. Do not use this unit with any separate solid-state speed control device.
8. To reduce the risk of fire, use only metal ductwork.
9. This unit must be grounded.

**TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:**

- A. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- B. Always turn hood ON when cooking at high heat or when flambeing food (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambe').
- C. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- D. Use proper pan size. Always use cookware appropriate for the size of the surface element.



## WARNING

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**TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:\***

1. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
2. NEVER PICK UP A FLAMING PAN - You may be burned.
3. DO NOT USE WATER, including wet dishcloths or towels - violent steam explosion will result.
4. Use an extinguisher ONLY if:
  - A. You know you have a Class ABC extinguisher and you already know how to operate it.
  - B. The fire is small and contained in the area where it started.
  - C. The fire department is being called.
  - D. You can fight the fire with your back to an exit.

\* Based on "Kitchen Fire Safety Tips" published by NFPA.



## CAUTION

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1. To reduce risk of fire and to properly exhaust air, be sure to duct air outside. Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages.
2. Take care when using cleaning agents or detergents.
3. Avoid using food products that produce flames under the Range Hood.
4. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
5. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
6. Your hood motor has a thermal overload which will automatically shut off the motor if it becomes overheated. The motor will restart when it cools down. If the motor continues to shut off and restart, have the hood serviced.
7. For best capture of cooking impurities, the bottom of the hood should be a minimum of 22 1/2" above the cooking surface.
8. Three installers are recommended because of the large size and weight of this hood.
9. This product is equipped with a thermostat which may start blower automatically. To reduce the risk of injury and to prevent power from being switched on accidentally, switch power off at service panel and lock or tag service panel.
10. To reduce the risk of fire and electric shock, the Best U102E Series hood must be installed with blower models EB6, EB9, EB12 or EB15 only. Other blowers cannot be substituted. (blowers sold separately).
11. Use with approved cord-connection kit only.
12. Please read specification label on product for further information and requirements.

# OPERATION

For quiet operation and best capture of smoke, steam and other cooking impurities, always operate this unit with the slide-out visor fully open.

## Controls

The hood is operated using the (5) push buttons located on the slide-out visor.

The **Light Off/On** switch turns the lights on to low intensity and turns them off.

The **Light Dimmer** switch alternates light intensity from low to high.

The **Blower Off/Speed** switch turns the blower off and changes blower speed to four different speed settings: high, medium-high, medium-low and low speed. Depress and hold the button for 2 seconds to turn the blower off.

The **Blower On/Speed** switch turns the blower on to four different speed settings: Low, medium-low, medium-high and high speed. The visor must be open for the blower to be operational.

### The LED Display:

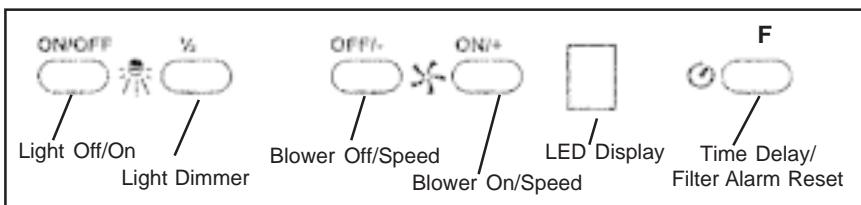
Indicates blower speed selection from 1 (lowspeed) to 4 (high speed).

Flashes the blower speed when the 10-minutes delay off has been activated.

After 30 hours of operation, the center segment of the display blinks and remains lit, indicating that filters need to be cleaned.

The **Time Delay** switch activates a delay off feature. When pushed, the blower will continue to operate at the current speed setting for 10-minutes before automatically turning itself off.

The **Filter Alarm Reset** switch is used to reset the 30-hour filter timer. After filters are cleaned or replaced, press this switch once to reset the filter clean alarm.



## HEAT SENTRY™

Your hood is equipped with a HEAT SENTRY™ thermostat. This thermostat is a device that will turn on or speed up the blower if it senses excessive heat above the cooking surface.

1. If blower is OFF - it turns blower ON to HIGH speed.
2. If blower is ON at a lower speed setting - it turns blower up to HIGH speed.

When the temperature level drops to normal, the blower will return to its original setting.



**WARNING:** The HEAT SENTRY thermostat can start the blower even if the hood is turned OFF. When this occurs, it is impossible to turn the blower OFF with its switch. If you must stop the blower, do it from the main electrical panel.

## HALOGEN BULBS

This range hood requires two halogen bulbs (Type JC, 12V, 20Watt max, G4 Base).

**⚠ WARNING:** Always switch off the electrical supply before carrying out any operation on the appliance.

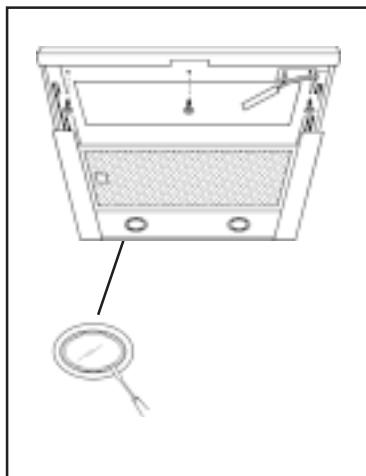
To change bulbs:

1. Open the cover by prying from the proper slots. DO NOT ROTATE.

**⚠ CAUTION:** Bulb may be hot.

2. Replace with a JC, 12V, 20 Watt max, G-4 Base bulb. Do not touch replacement bulb with bare hands!

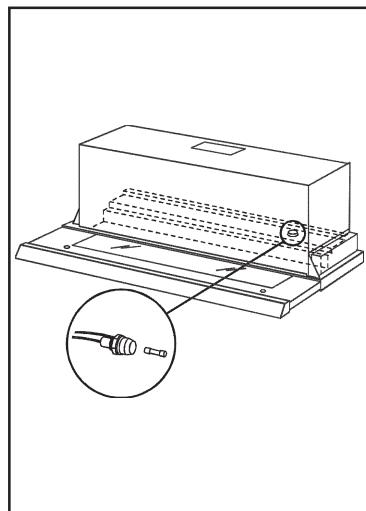
**DO NOT use bulbs greater than 20 Watts. Bulbs greater than 20 Watts will cause the fuse to open.**



## FUSE REPLACEMENT

**IF LIGHTS FAIL TO OPERATE, DISCONNECT POWER AT THE SERVICE ENTRANCE. CHECK THE FUSE AND REPLACE IF NECESSARY.**

1. Remove the grease filter and pull the visor open.
2. Locate the fuse holder on the top right hand side of the light housing.
3. Unscrew the fuse holder cap and remove the fuse.
4. Replace the fuse with the same size and amperage (5 x 20mm, 4 amp, 125 volt).  
**DO NOT use fuses greater than 4 Amps. Fuses greater than 4 Amps may damage the transformer.**
5. Reinstall the fuse cap and grease filter.
6. Reconnect power at the service entrance.



# MAINTENANCE

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Proper maintenance of the Range Hood will assure proper performance of the unit.

## ***Grease Filters***

The **grease filters** should be cleaned when the LED Display flashes when the blower is off (i.e. 30 hours of operation). Use a warm detergent solution to clean filters. Filters are dishwasher safe. See page 12 for filter removal and installation instructions.

## ***Hood Cleaning***

Stainless steel is one of the easiest materials to keep clean. Occasional care will help preserve its fine appearance.

Cleaning tips:

1. Hot water with soap or detergent is all that is usually needed.
2. Follow all cleaning by rinsing with clear water. Wipe dry with a clean, soft cloth to avoid water marks.
3. For discolorations or deposits that persist, use a non-scratching household cleanser or stainless steel polishing powder with a little water and a soft cloth.
4. For stubborn cases, use a plastic scouring pad or soft bristle brush together with cleanser and water. Rub lightly in direction of polishing lines or "grain" of the stainless finish. Avoid using too much pressure which may mar the surface.
5. **DO NOT** allow deposits to remain for long periods of time.
6. **DO NOT** use ordinary steel wool or steel brushes. Small bits of steel may adhere to the surface causing rust.
7. **DO NOT** allow salt solutions, disinfectants, bleaches, or cleaning compounds to remain in contact with stainless steel for extended periods. Many of these compounds contain chemicals which may be harmful. Rinse with water after exposure and wipe dry with a clean cloth.

Painted surfaces should be cleaned with warm water and mild detergent only.

## **PREPARE THE HOOD**

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Unpack hood and check contents.

You should receive:

1 - Hood

1 - 8" Damper / Duct Connector

1 - Glass Visor

1 - Decorative Spacer

1 - Parts Bag containing:

2 - Mounting Brackets

4 - Machine Screws (M4 x50mm Pan Head)

4 - Flat Washers (4mm diameter)

7 - Screws (3.9 x 9.5mm Pan Head)

8 - Screws (4.8 x 12mm Pan Head)

1 - Installation Instructions

1 - Warranty Card



**8" DAMPER/DUCT CONNECTOR**



**GLASS VISOR**



**2 MOUNTING BRACKETS**



**4 MACHINE SCREWS  
(M4 X 50mm PAN HEAD)**



**4 FLAT WASHERS**



**8 SCREWS  
(4.8 x 12mm PAN HEAD)**



**DECORATIVE SPACER**

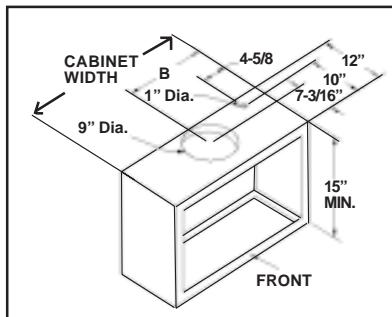
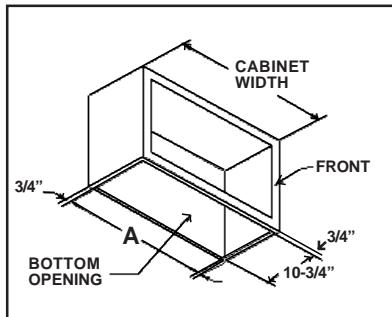


**7 MOUNTING SCREWS  
(3.9 x 9.5mm PAN HEAD)**

## PREPARE WALL CABINET

1. Prior to wall cabinet installation, remove doors and door mounting hardware.
2. Cut an opening into the bottom panel to the dimensions shown.
3. Cut out openings for the duct and electrical wiring.
4. Install cabinet on the wall and secure per cabinet manufacturer's recommendations. The cabinet must be securely fastened to studs and framing behind the drywall prior to hood installation.

Cabinet-Width	"A"	"B"
30"	28-1/2"	15"
36"	34-1/2"	18"
42"	40-1/2"	21"

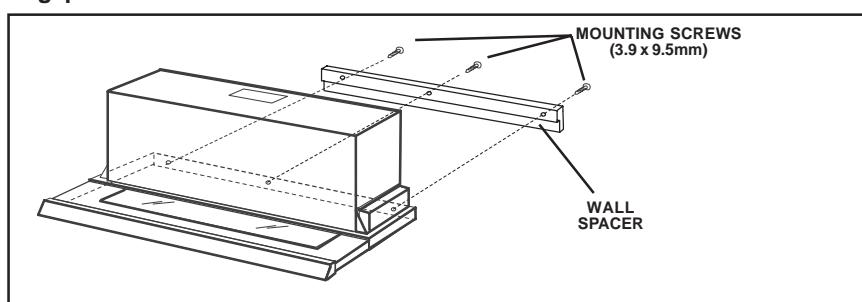
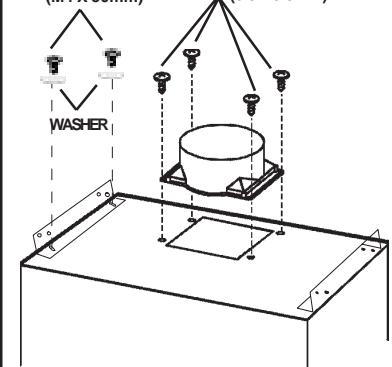


## PREPARE THE HOOD

1. Loosely assemble both mounting brackets to the hood using M4 x 50mm machine screws and flat washers.
2. Place the 8" damper/duct connector on top of the range hood discharge opening. Remove tape from damper flaps. Secure with (4) 3.9 x 9.5mm screws.
3. Assemble wall spacer to the hood with (3) 3.9 x 9.5mm screws.

**NOTE:** The spacer is designed to fill a 5/8" gap between the wall and the back of the hood. If the gap is larger, a non-combustible material that is in compliance with local building codes must be used to fill this gap.

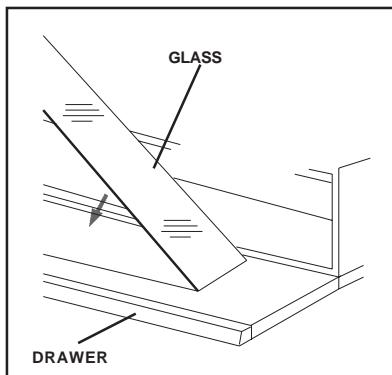
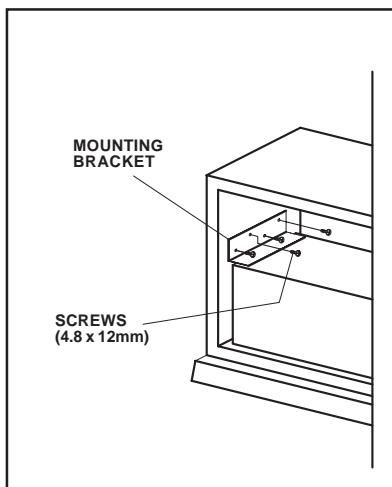
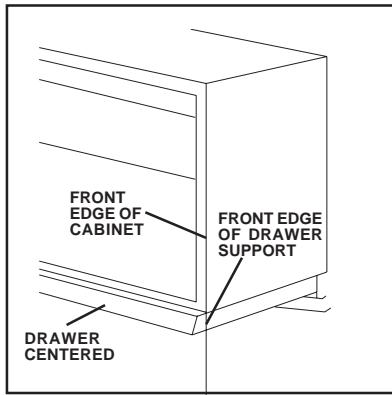
MACHINE SCREWS (M4 X 50mm)      MOUNTING SCREWS (3.9 x 9.5mm)



## INSTALL THE HOOD

NOTE: At least three people will be required to mount the hood.

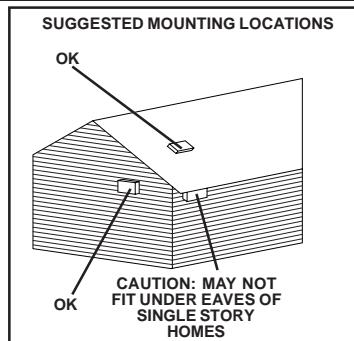
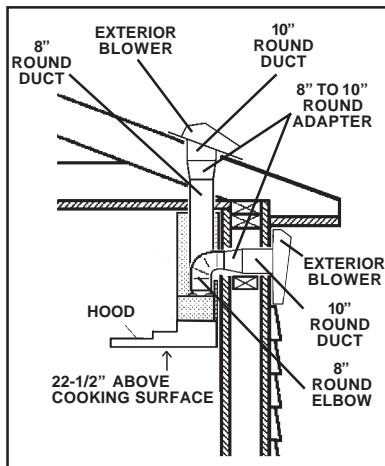
1. Raise the hood up into the wall cabinet. Adjust brackets to contact inside walls of the cabinet.
2. Make sure the front edge of the hood drawer support is aligned with the front of the wall cabinet. Center the hood on the wall cabinet.
3. Tighten the (4) mounting bracket machine screws previously installed.
4. Fasten the hood to the cabinet with (8) 4.8 x 12mm pan head screws. Make sure that screws will not penetrate finished cabinet side walls.
5. Open the slide out drawer. Place the glass panel into the open recessed area of the drawer.
6. Slide glass left or right until it is centered in the opening and securely retained.



## INSTALL THE DUCTWORK

**NOTE: To reduce the risk of fire, use only metal ductwork.**

1. Choose the location where the exterior blower will be mounted. See illustrations below for mounting location suggestions and restrictions.
2. A straight, short duct run will allow the hood to perform most efficiently.
3. Long duct runs, elbows and transitions will reduce the performance of the hood. Use as few of them as possible. Larger ducting may be required for best performance with long duct runs.
4. After the exterior blower has been installed, connect round metal ductwork and work back towards the hood location. Use duct tape to seal joints between ductwork sections.
5. An 8" round to 10" round transition (Model 414) is required. For best air performance, install the adapter as close to the range hood as possible.



## WIRING

**CAUTION:** All electrical wiring should be done by a qualified person (s) in accordance with all applicable codes and standards. This range hood must be properly grounded.

**Do not turn power on at service panel until all wires have been connected.**

### Blower connection at hood:

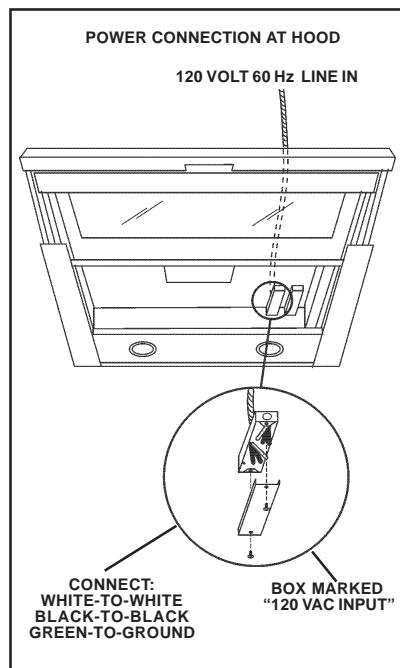
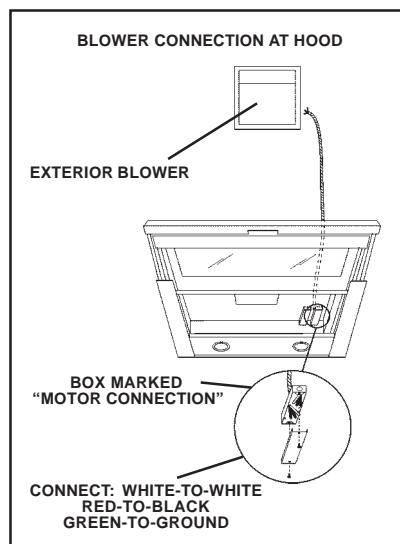
1. Run 2-wire plus ground power cable from the exterior blower to the hood's wiring box marked "motor connection".
2. Remove the cover from the wiring box.
3. Feed 6" of cable through the knock-out opening and secure the cable to the wiring box with an appropriate connector.
4. Make electrical connections at the hood. Connect white-to-white, **red-to-black** and green-to-ground.
5. Replace the wiring box cover and screws. Make sure wires are not pinched between the cover and box.

### Exterior blower connection:

1. Make electrical connections at the exterior blower (see instructions provided with the exterior blower).

### Power connection at hood:

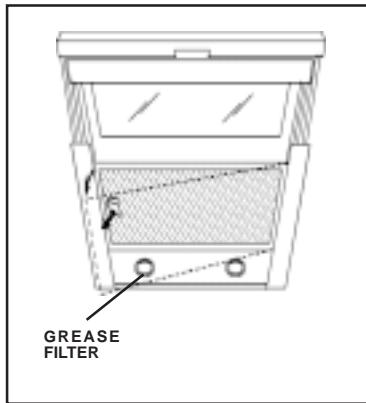
1. Run 120 VAC electrical power cable to the hood wiring box marked "120VAC input".
2. Remove the cover from the wiring box.
3. Feed 6" of cable through the knock-out opening and secure the cable to the wiring box with an appropriate connector.
4. Make electrical connections at the hood. Connect white-to-white, **black-to-black** and green-to-ground.
5. Replace the wiring box cover and screws. Make sure wires are not pinched between the cover and box.



## INSTALL FILTERS

To install the GREASE filter, grip the latch tab and pull it down. This will disengage the filter from the hood. See Figure 16.

To remove the GREASE filter, align filter tabs on the side of the filter with slots in the hood drawer. Pull latch tab down, push filter up into place and release the tab. Make sure the filter is securely engaged after assembly.



## WARRANTY

### BROAN ONE YEAR LIMITED WARRANTY

Broan warrants to the original consumer purchaser of its products that such products will be free from defects in materials or workmanship for a period of one year from the date of original purchase. **THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

During this one-year period, Broan will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service.

**THIS WARRANTY DOES NOT EXTEND TO FLUORESCENT LAMP STARTERS, TUBES, HALOGEN AND INCANDESCENT BULBS.** This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by Broan), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the one-year period as specified for the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

**BROAN'S OBLIGATION TO REPAIR OR REPLACE, AT BROAN'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.** BROAN SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

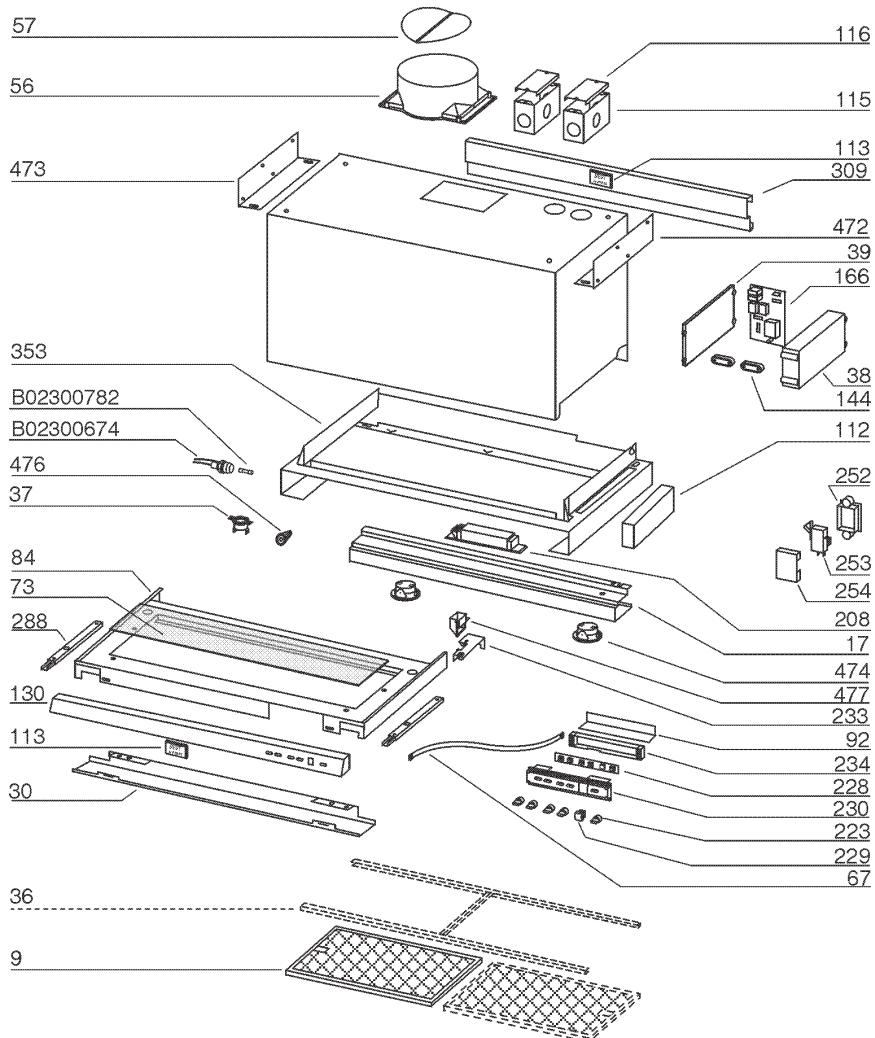
This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.

To qualify for warranty service, you must (a) notify Broan at the address stated below or telephone: 1-800-637-1453, (b) give the model number and part identification and (c) describe the nature of any defect in the product or part. At the time of requesting warranty service, you must present evidence of the original purchase date.

**BEST BY BROAN**, P.O. Box 140 Hartford, Wisconsin 53027

## SERVICE PARTS

## **MODEL U102E**



## SERVICE PARTS

MODEL U102E - Parts for stainless steel models shown. For service parts for black, white, polished brass or brushed copper models, call Broan Customer Service.

KEY NO.	PART NO.	DESCRIPTION
9	B08087077	Grease Filter (36" model)
9	B08087016	Grease Filter (30" model)
9	B08087017	Grease Filter (42" model)
17	BE3347241	Halogen Support (36" model)
17	BE3347372	Halogen Support (30" model)
17	BE3347378	Halogen Support (42" model)
30	BE3347340	Controls Protection (36" model)
30	BE3347370	Controls Protection (30" model)
30	BE3347259	Controls Protection (42" model)
36	BE3403716	Filter Frame (36" model)
36	BE3403765	Filter Frame (42" model)
37	B02300804	Heat Sentry
38	B03292357	Electrical Box
39	B03294033	Electrical Box Cover
56	B03292465	Duct Connector
57	B02011004	Non-Return Flap
73	B02005069	Glass (36" model)
73	B02005070	Glass (30" model)
73	B02005071	Glass (42" model)
84	BE3403714	Display Visor (36" model)
84	BE3403752	Display Visor (30" model)
84	BE3403762	Display Visor (42" model)
112	B03294746	Wiring Protection
113	B02011207	Name Plate
115	BE3334250	Wiring Box
116	BE3334252	Wiring Box Cover
130	B003101208	Front Panel (36" model)
130	B003101220	Front Panel (30" model)
130	B003101227	Front Panel (42" model)
144	B03292287	Wire Clamp
166	B08086701	Wiring Board
208	B02300783	Transformer
223	B03294171	Switch Botton
233	B03294740	Closing
252	B03292349	Microswitch Box
253	B02300620	Microswitch
254	B03292350	Microswitch Box Cover
288	B020111650	Runner Ball
309	B003101216	Spacer (36" model)
309	B003101222	Spacer (30" model)
309	B003101228	Spacer (42" model)
353	BE3403713	Display Support (36" model)
353	BE3403751	Display Support (30" model)
353	BE3403761	Display Support (42" model)
472	BE3347252	Right Bracket
473	BE3347251	Left Bracket
474	B02300733	Halogen Lamp
476	B03292203	Spacer Panel
477	B03294785	Upper Closing
998	B080810599	Hardware Package
ARU *	B08085018	Flange + Non Return Flap Assembly (56,57)
	B06108277	Switch Box Assembly:Includes Key Nos. 234, 228, 223, 229, 67, 230, 92
-	B02300782	Fuse
-	B02300674	Fuse Holder

\* Not shown assembled.